







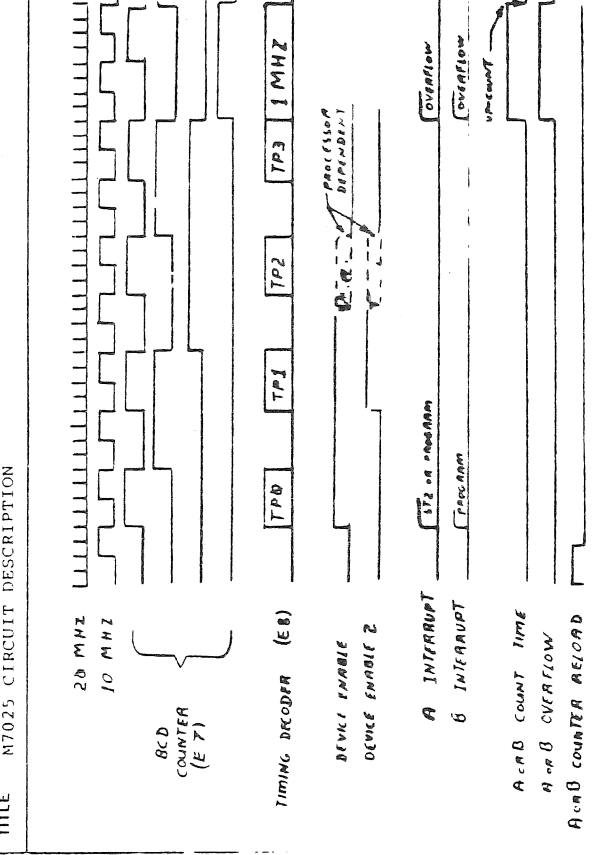


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                    |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------|-----|
| ENGINEERING SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | CONTINUATION SHEET |     |
| TITLE M7025 CIRCUIT DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                    |     |
| <p>The count-down input is used to increment (2's complement-decrement) the A Buffer data in Auto Increment Mode. Data to the A Buffer can be from the A Counter or the Buffered Data Bus. The A Buffer data is multiplexed by 74153, two to one line multiplexers. The B Clock Counter, Preset Buffer and Status registers are located on sheet D8. The B Counter is made up of 74194 binary counters. The overflow from the counter is used to reload the counter with the data in the B Buffer is from the buffered data bus.</p> <p>A 20 MHz oscillator is used to generate timing pulses and various other frequencies that are a multiple of 20 MHz. The 20 MHz oscillator is located on the lower left of sheet D5, 745124. It is divided by 74190 BCD counters to 1 MHz, 100KHz, 10KHz, and 100Hz. These frequencies are decoded by a 74157 (multiplexer) to one frequency which is used to increment clock A Counter.</p> <p>Clock B frequency dividers and multiplexer are located on sheet D9.</p> <p>The four Schmitt Triggers are located on sheet 9. Three of the Schmitt Triggers inputs have threshold control and slope control. The fourth Schmitt Trigger is used for line frequency (location B7). The outputs of Schmitt Triggers one, two and the line frequency are synchronized to the timing pulses produced on sheet D5. Refer to the timing chart in figure 1 for timing relationship. The resistor/diode network on the input of ST1, ST2 and ST3, is for protection and converting the input to 0 to +4V. The LM339 (E10) inputs cannot exceed +4V.</p> |      |                    |     |
| SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CODE | NUMBER             | REV |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SP   | KW11-K-5           | 7   |

DEC FORM NO. 104-10 (10-11-10) 1027 N310  
ORA 108

|                                                                                                                                                                                                                                                                                                                                                                             |      |                    |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------|-----|
| ENGINEERING SPECIFICATION                                                                                                                                                                                                                                                                                                                                                   |      | CONTINUATION SHEET |     |
| TITLE M7025 CIRCUIT DESCRIPTION                                                                                                                                                                                                                                                                                                                                             |      |                    |     |
| <p>When the + input exceeds the - input, the output of the LM339 will go to +4V. When the + input becomes LESS than the - input, the output of the LM339 will go to 0V. The LM339 feedback resistor is for hysteresis. When the output of the LM339 is positive, 50 mV is fed back into the input. This is an effective hysteresis at the resistor/diode network input.</p> |      |                    |     |
| SIZE                                                                                                                                                                                                                                                                                                                                                                        | CODE | NUMBER             | REV |
| A                                                                                                                                                                                                                                                                                                                                                                           | SP   | KW11-K-5           | 7   |

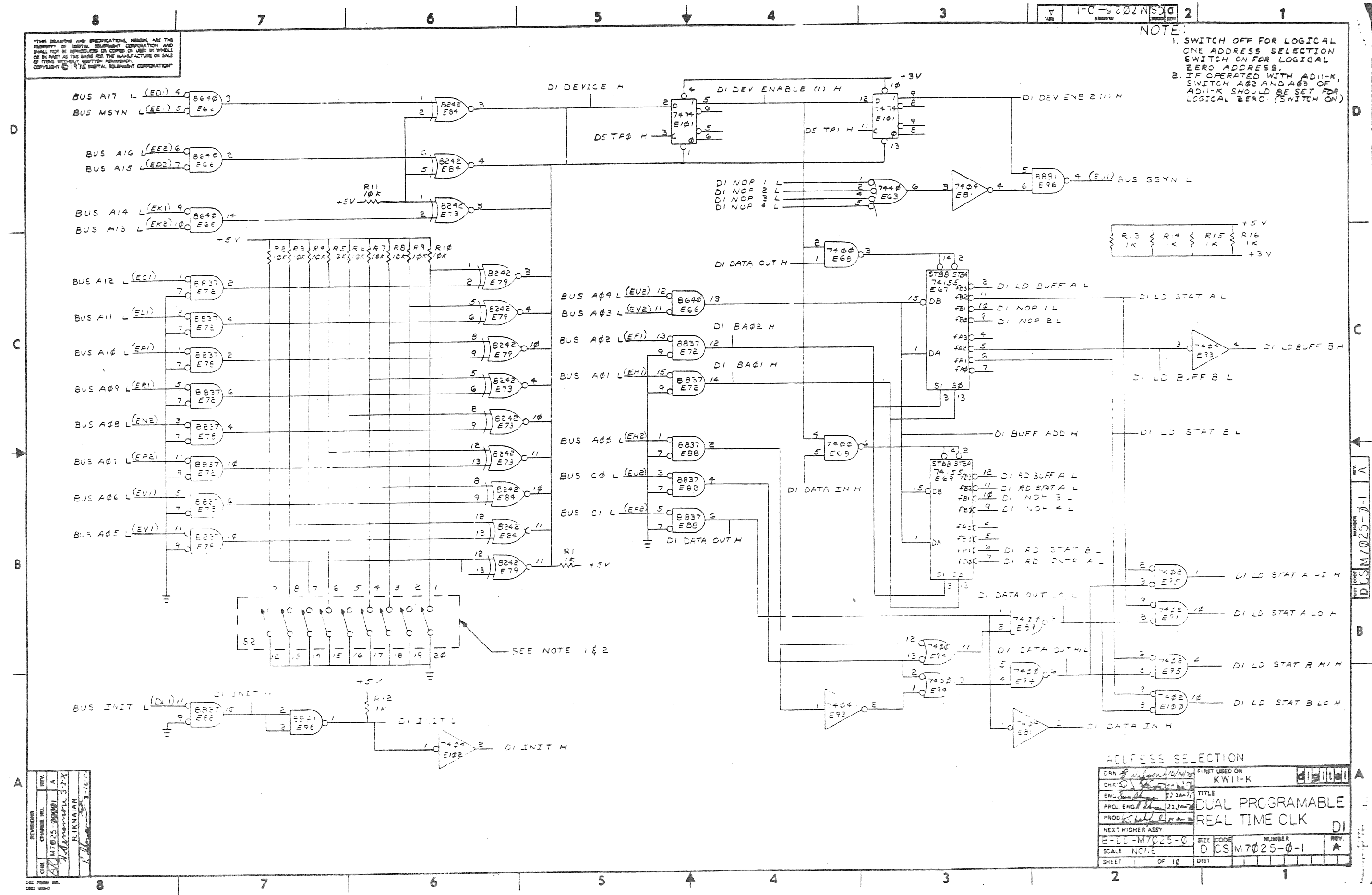
DEC FORM NO. 104-10 (10-11-10) 1027 N310  
ORA 108

|                                                                                      |      |                    |     |
|--------------------------------------------------------------------------------------|------|--------------------|-----|
| ENGINEERING SPECIFICATION                                                            |      | CONTINUATION SHEET |     |
| TITLE M7025 CIRCUIT DESCRIPTION                                                      |      |                    |     |
|  |      |                    |     |
| FIGURE 1 : TIMING DIAGRAM                                                            |      |                    |     |
| SIZE                                                                                 | CODE | NUMBER             | REV |
| A                                                                                    | SP   | KW11-K-5           | 7   |

DEC FORM NO. 104-10 (10-11-10) 1027 N310  
ORA 108



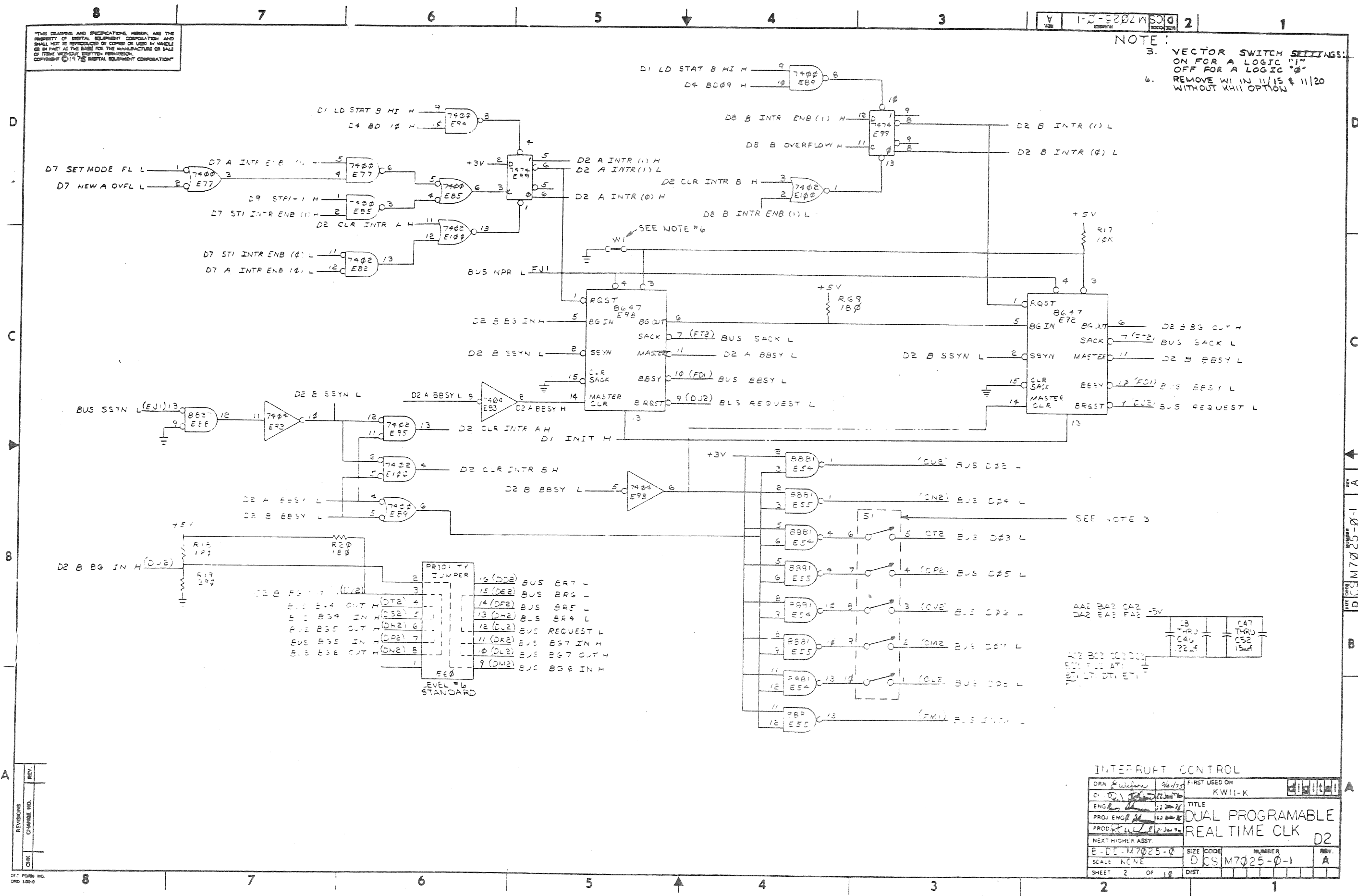
1. SWITCH OFF FOR LOGICAL ONE ADDRESS SELECTION SWITCH ON FOR LOGICAL ZERO ADDRESS.
2. IF OPERATED WITH AD11-K, SWITCH A02 AND A03 OF AD11-K SHOULD BE SET FOR LOGICAL ZERO. (SWITCH ON)



|                   |          |  |                   |  |  |           |  |  |         |
|-------------------|----------|--|-------------------|--|--|-----------|--|--|---------|
| ADDRESS SELECTION |          |  |                   |  |  |           |  |  |         |
| DRN               | 10/11/76 |  | FIRST USED ON     |  |  | KW11-K    |  |  | digital |
| CHKD              | 10/11/76 |  | TITLE             |  |  |           |  |  |         |
| ENG               |          |  | DUAL PROGRAMMABLE |  |  |           |  |  |         |
| PROJ ENG          |          |  | REAL TIME CLK     |  |  |           |  |  |         |
| PROD              |          |  | DI                |  |  |           |  |  |         |
| NEXT HIGHER ASSY  |          |  | SIZE CODE         |  |  |           |  |  |         |
| E-LL-M7025-0      |          |  | NUMBER            |  |  | REV.      |  |  |         |
| SCALE NC/E        |          |  | D CS              |  |  | M7025-0-1 |  |  |         |
| SCALE             |          |  | DIST              |  |  |           |  |  |         |
| 1 OF 10           |          |  |                   |  |  |           |  |  |         |



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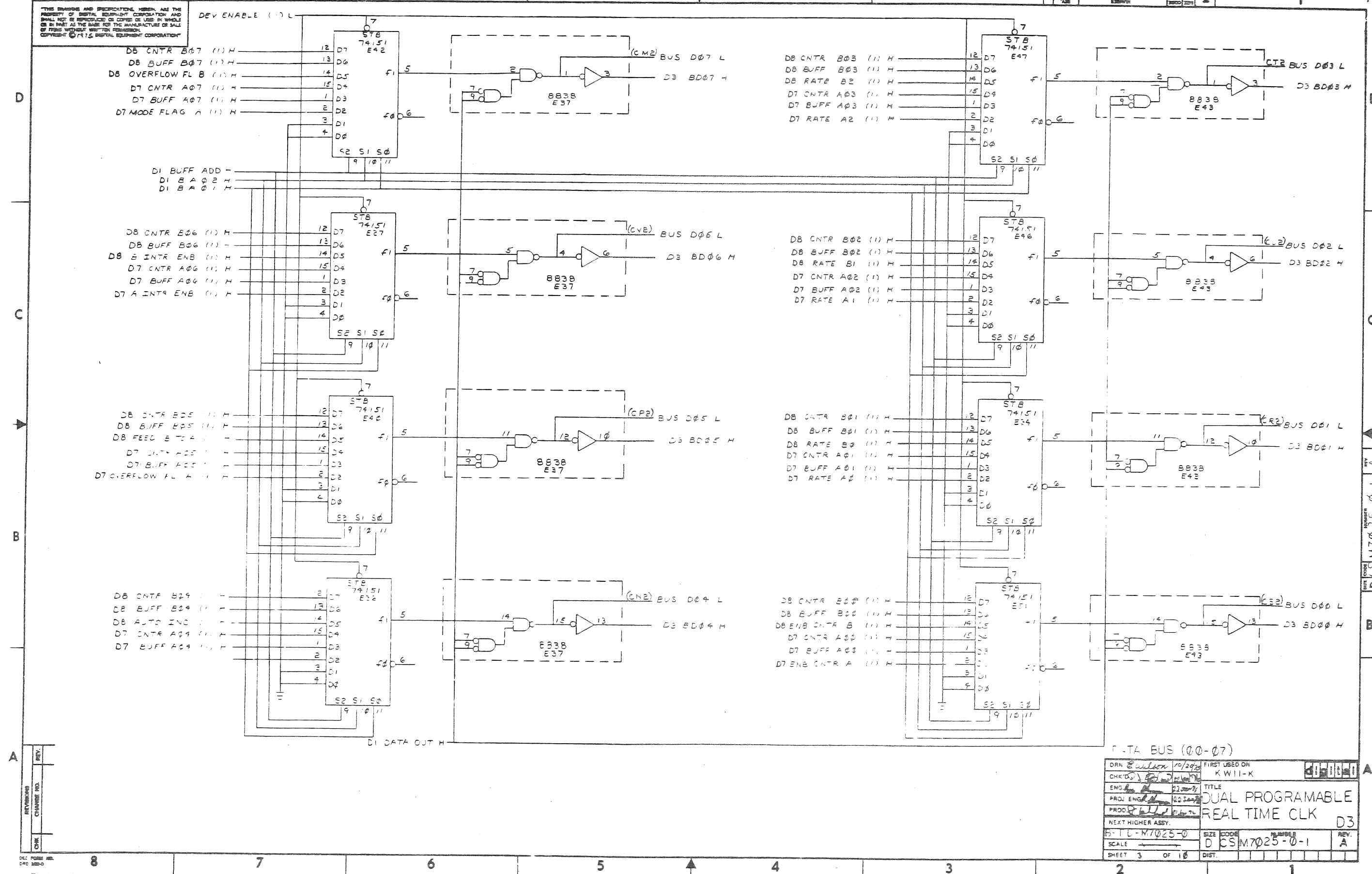
NOTE :

3. VECTOR SWITCH SETTINGS:  
ON FOR A LOGIC "1"  
OFF FOR A LOGIC "0"
6. REMOVE W1 IN 11/15 & 11/20  
WITHOUT WH11 OPTION

|                      |                  |                   |                  |
|----------------------|------------------|-------------------|------------------|
| INTERRUPT CONTROL    |                  |                   |                  |
| DRN # <i>W100</i>    | 9/2/75           | FIRST USED ON     | <i>digital</i>   |
| C. <i>D</i>          | <i>22 Jan 76</i> | KWII-K            |                  |
| ENG. <i>W</i>        | <i>22 Jan 76</i> | TITLE             |                  |
| PROJ. ENG. <i>M</i>  | <i>22 Jan 76</i> | DUAL PROGRAMMABLE |                  |
| PROD. <i>ELL</i>     | <i>22 Jan 76</i> | REAL TIME CLK     | <i>D2</i>        |
| NEXT HIGHER ASSY.    |                  |                   |                  |
| <i>E-DC-1A7025-0</i> |                  | SIZE CODE         | REV.             |
| SCALE <i>NONE</i>    |                  | <i>DCS</i>        | <i>M7025-0-1</i> |
| SHEET <i>2</i>       | OF <i>10</i>     | DIST.             |                  |

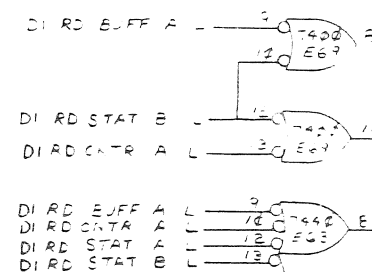
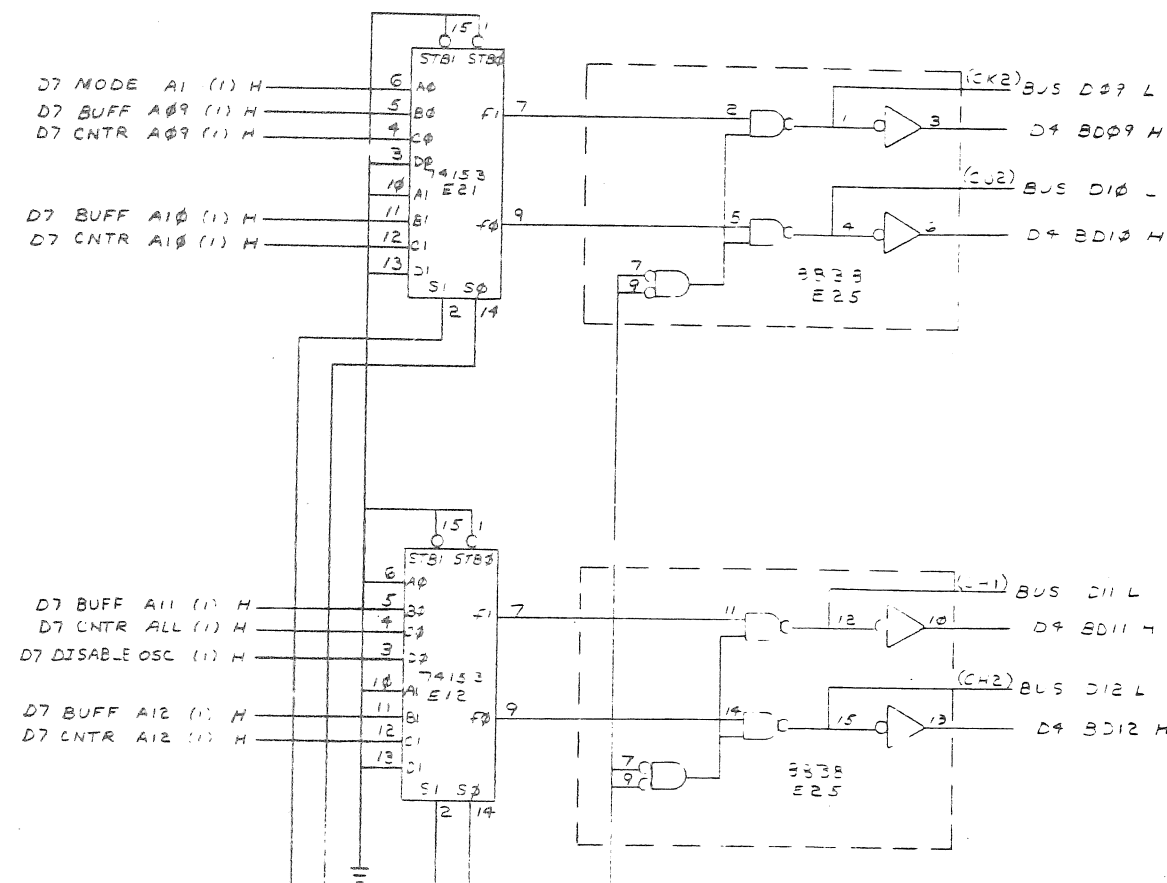


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|   |   |              |   |
|---|---|--------------|---|
| 1 | 2 | CS M2025-0-1 | A |
|---|---|--------------|---|

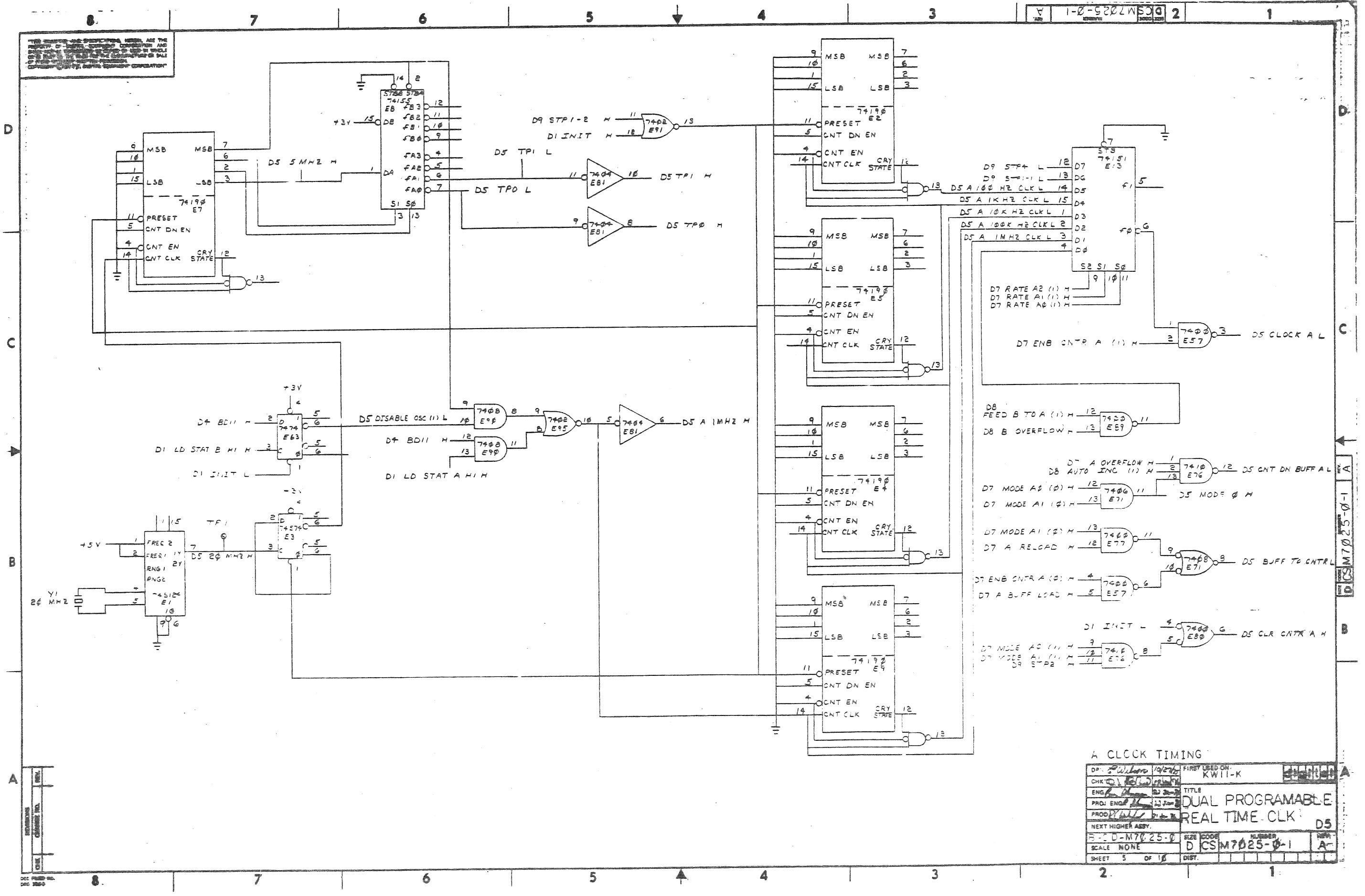


|                             |          |                       |  |                  |       |
|-----------------------------|----------|-----------------------|--|------------------|-------|
| DATE: 10-15-83              |          | FIRST USED ON: KWH-1K |  | 10-15-83         |       |
| CHKD BY: [Signature]        | 10/15/83 | TITLE:                |  | DUAL PROGRAMABLE |       |
| ENG'D BY: [Signature]       | 10/15/83 | REAL TIME CLK         |  | D4               |       |
| PROG. ENG'D BY: [Signature] | 10/15/83 | SIZE CODE:            |  | NUMBER:          | REV.: |
| PROD. KWH-1K                | 10/15/83 | D                     |  | CSM7025-0-1      | A     |
| NEXT HIGHER ASSY:           |          | SCALE:                |  | NONE             |       |
| E-CC-N7025-0                |          | SHEET:                |  | 4                | OF 18 |
| DIST:                       |          |                       |  |                  |       |



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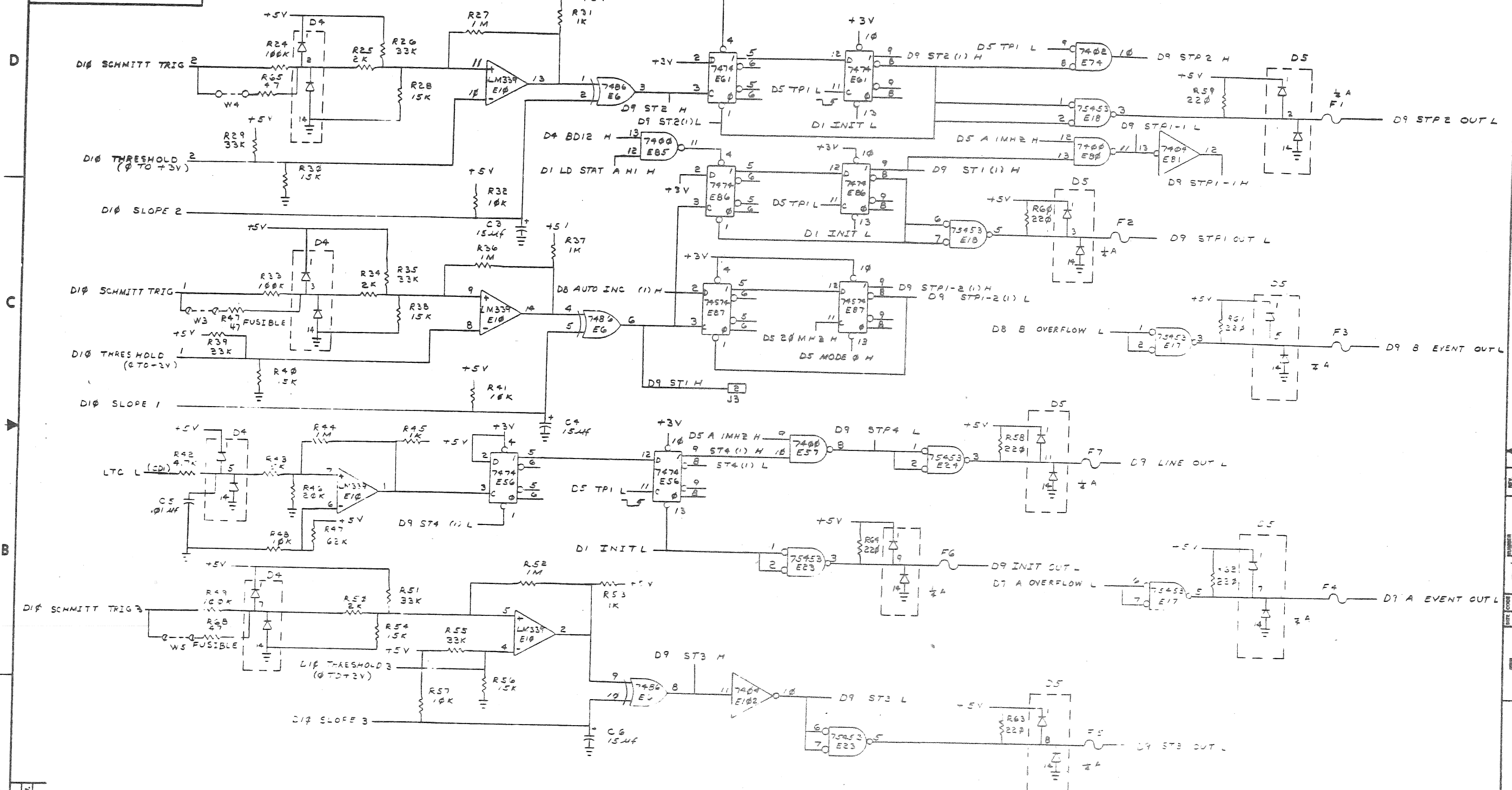
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|                          |                 |                |                                      |
|--------------------------|-----------------|----------------|--------------------------------------|
| A CLOCK TIMING           |                 |                |                                      |
| DP: <i>Wilson</i>        | <i>10/27/76</i> | FIRST USED ON: | <i>10/27/76</i>                      |
| CHK: <i>1/10/77</i>      | <i>1/10/77</i>  | KW11-K         |                                      |
| ENG: <i>1/10/77</i>      | <i>1/10/77</i>  | TITLE          | DUAL PROGRAMMABLE<br>REAL TIME - CLK |
| PROJ ENG: <i>1/10/77</i> | <i>1/10/77</i>  |                |                                      |
| PROD: <i>1/10/77</i>     | <i>1/10/77</i>  |                |                                      |
| NEXT HIGHER ASSY:        |                 |                |                                      |
| B-C-D-M7025-0            |                 |                |                                      |
| SCALE NONE               |                 | SIZE CODE      | NUMBER                               |
| SHEET 5 OF 10            |                 | D              | CSM7025-0-1                          |
|                          |                 | DIST.          | REV: A                               |



2 DCS M7025-0-1 A



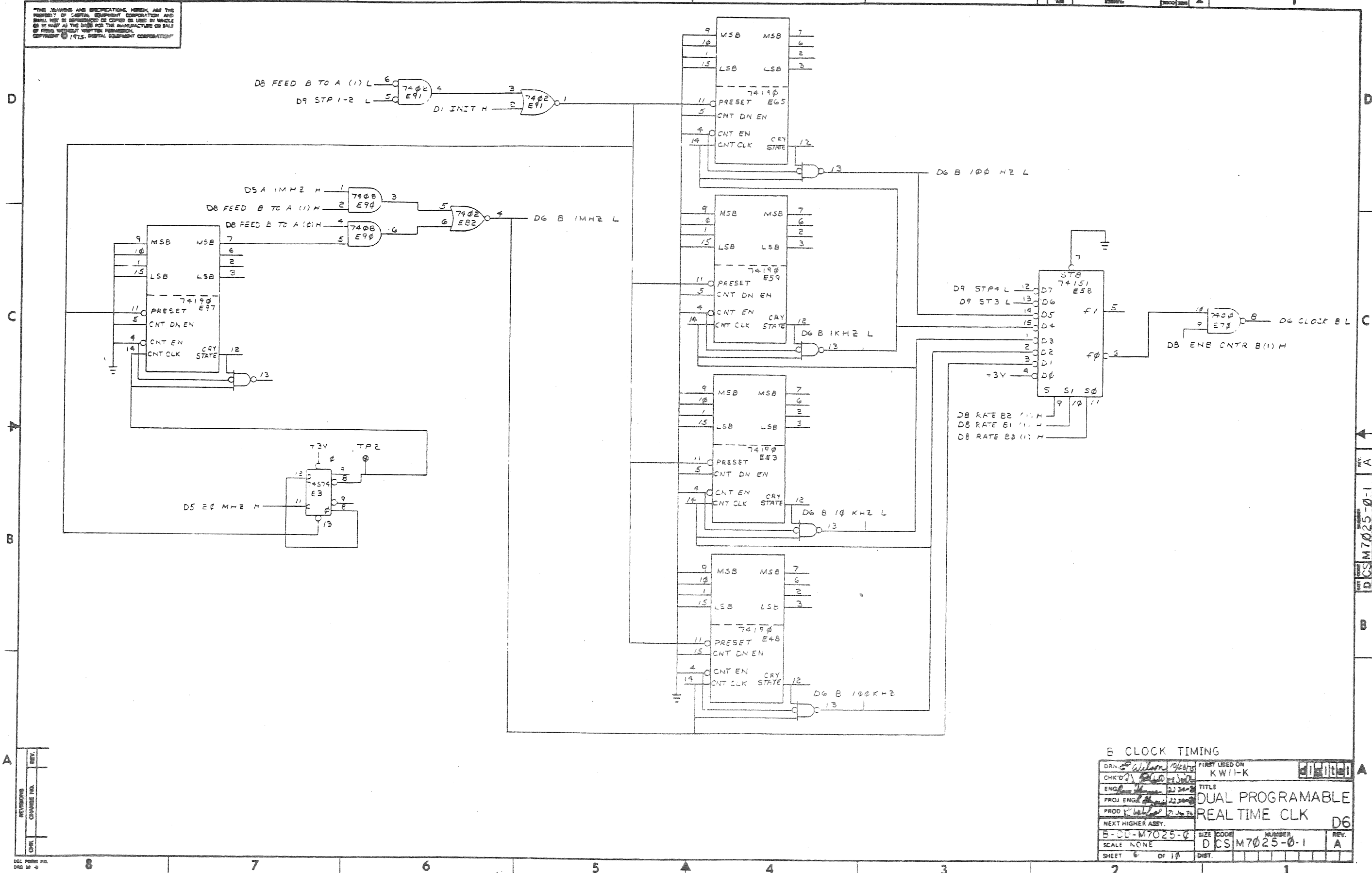
|                         |         |                                   |             |
|-------------------------|---------|-----------------------------------|-------------|
| EXTERNAL INPUTS/OUTPUTS |         |                                   |             |
| DRN 5 WINDM             | 1/425   | FIRST USED ON                     | KW11-K      |
| CHK'D                   | 2-20-74 | TITLE                             |             |
| ENG                     | 2-20-74 | DUAL PROGRAMABLE<br>REAL TIME CLK | D9          |
| PROL ENG                | 2-20-74 |                                   |             |
| PROD K L                | 2-20-74 |                                   |             |
| NEXT HIGHER ASSY.       |         |                                   |             |
| E-DD-M7025-0            |         | SIZE CODE                         | NUMBER      |
| SCALE NONE              |         | D                                 | CSM7025-0-1 |
| SHEET 5 OF 10           |         | DIST.                             |             |
|                         |         |                                   | REV. A      |



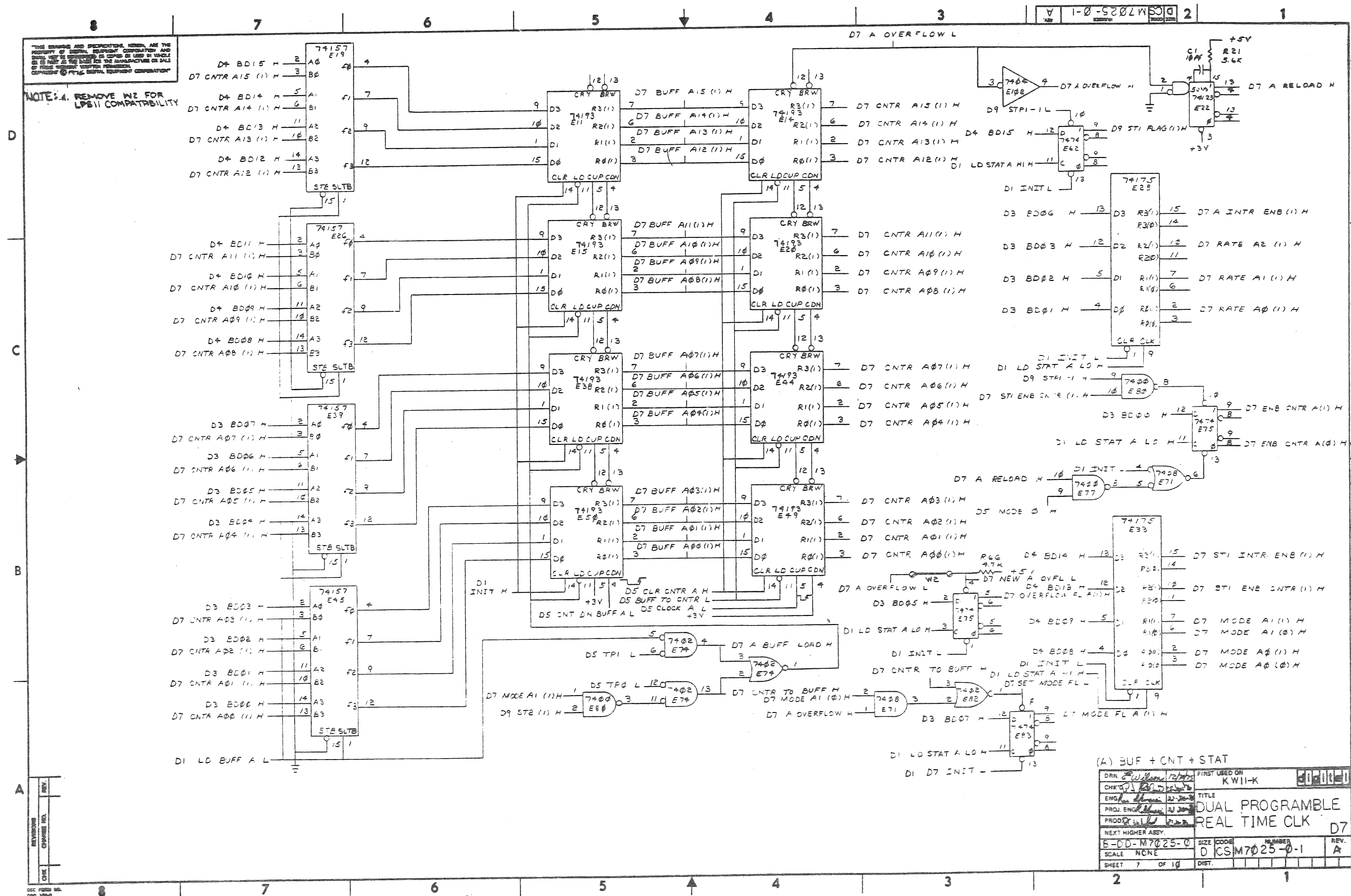
9

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DCS M7025-0-1

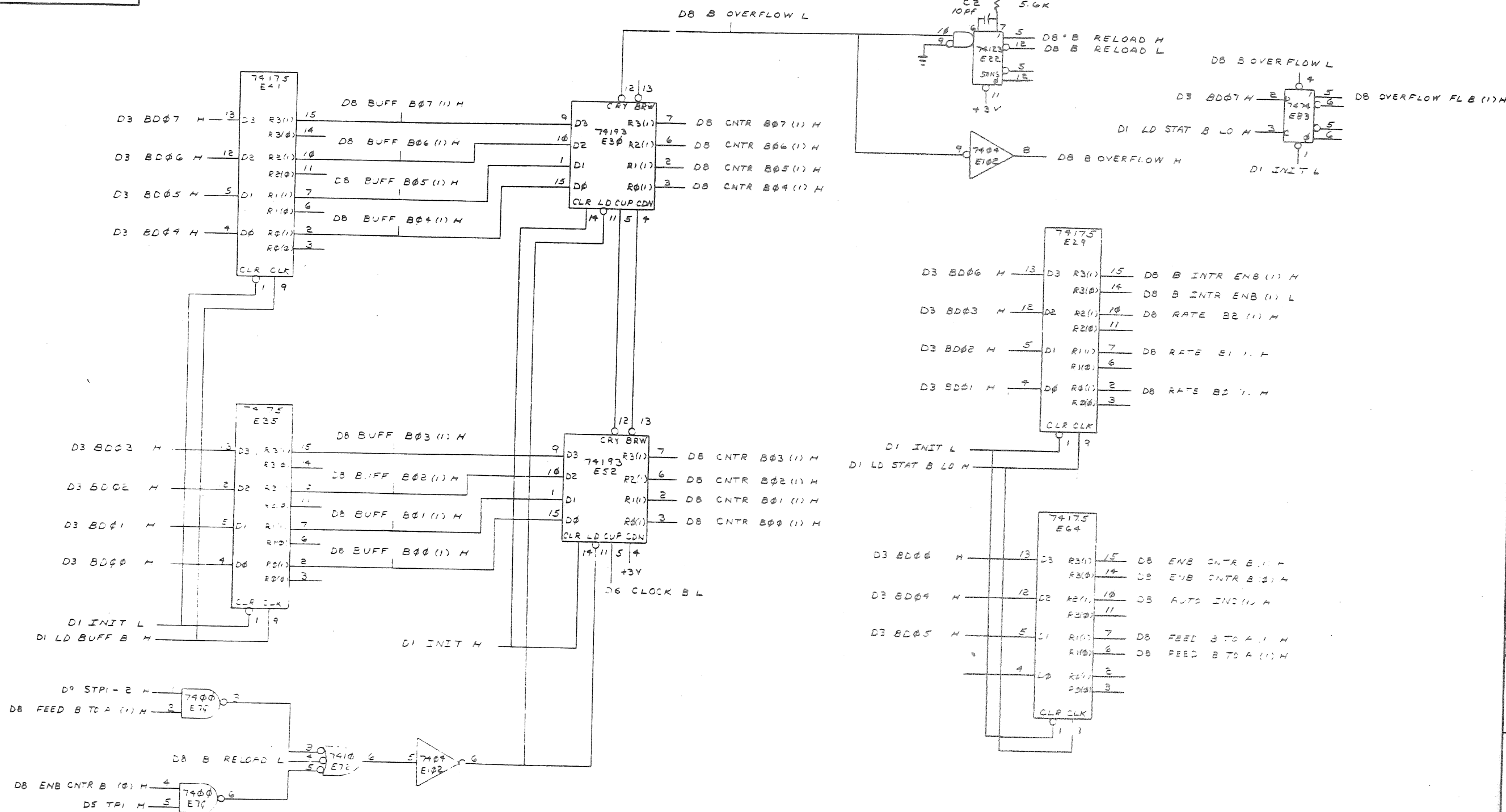








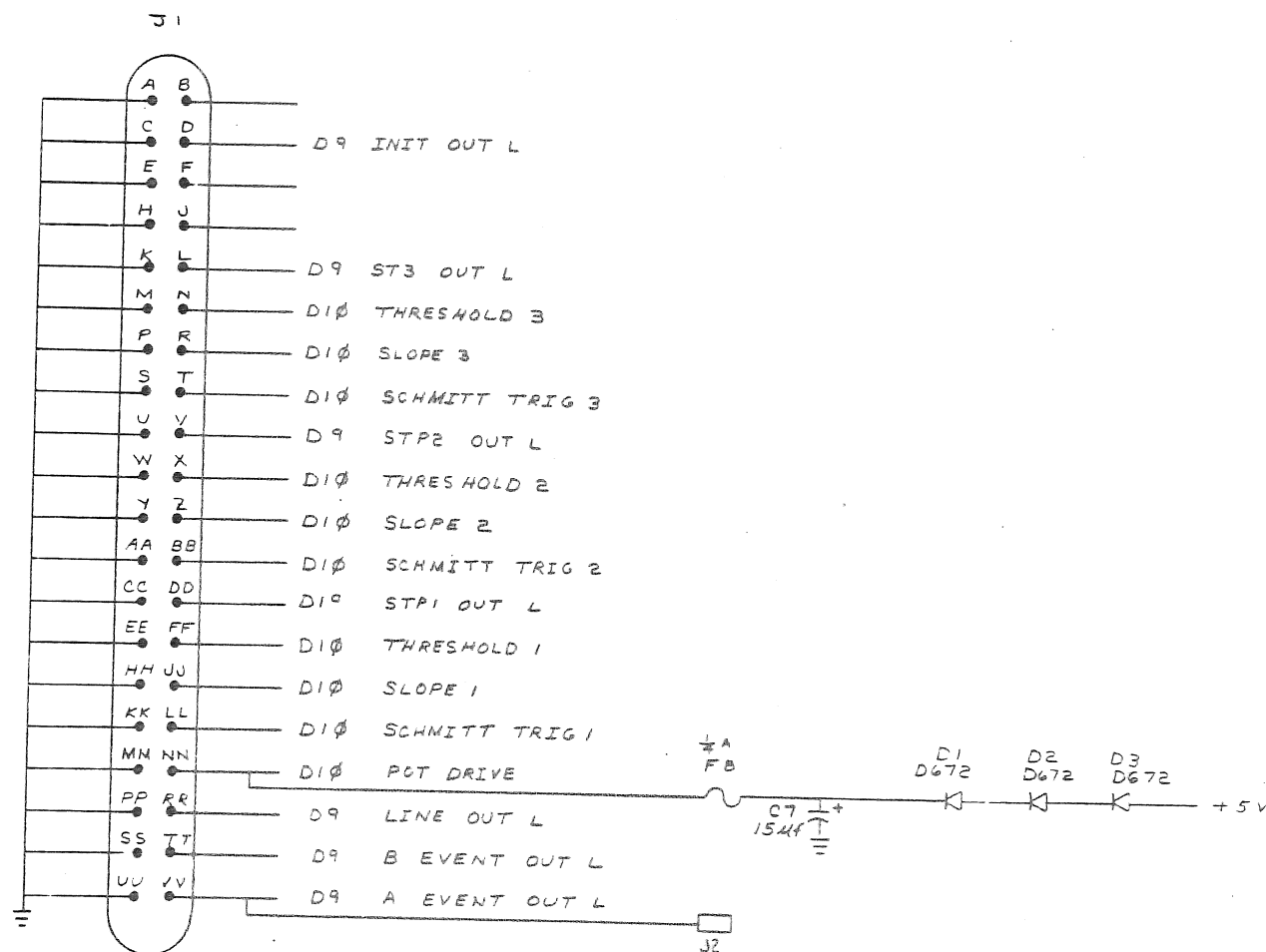
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| DB BUFF + CNT + STAT |        |                   |                                 |
|----------------------|--------|-------------------|---------------------------------|
| DRN                  | 1/3/75 | FIRST USED ON     | KWII K                          |
| CHK'D                | 1/3/75 | TITLE             | DUAL PROGRAMMABLE REAL TIME CLK |
| ENGR                 | 1/3/75 | PROD. ENGR        | 1/3/75                          |
| PROD. ENGR           | 1/3/75 | NEXT HIGHER ASSY. |                                 |
| E-00-M7025-0         | SIZE   | CODE              | NUMBER                          |
| SCALE                | NCNE   | D                 | CS M7025-0-1                    |
| SHEET 8 OF 10        | DIST.  |                   |                                 |



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|                              |                 |                   |                |               |                 |          |
|------------------------------|-----------------|-------------------|----------------|---------------|-----------------|----------|
| DRN <i>E. Wilson</i>         |                 | <i>11/8/75</i>    | FIRST USED ON  | <i>KW11-K</i> | <i>11-10-11</i> | <i>A</i> |
| CHKD <i>[initials]</i>       | <i>11/10/75</i> | TITLE             |                |               |                 |          |
| ENG'D <i>[initials]</i>      | <i>11/30/75</i> | DUAL PROGRAMABLE  |                |               |                 |          |
| PROJ ENG'D <i>[initials]</i> | <i>11/30/75</i> | REAL TIME CLK     |                |               |                 |          |
| PROD <i>[initials]</i>       | <i>12/10/75</i> | NEXT HIGHER ASSY. |                |               |                 |          |
| B-DD-M7025-0                 |                 |                   | SIZE CODE      | NUMBER        | REV.            |          |
| SCALE NONE                   |                 |                   | D CS M7025-0-1 |               | A               |          |
| SHEET                        | 10              | OF                | 10             | DIST.         |                 |          |



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NOTES:

- FOR DRAWING DIRECTORY, REFER TO: B-DD-M7025-0
- WIRE ADD #27 IS TO BE INSTALLED AFTER GR MODULE TEST. ADD WIRE FROM E1(7) TO E3(11).

ETCH CUTS SIDE #1 AS SHOWN

- CUT ETCH AT E47(8)
- CUT ETCH AT PTH ABOVE E18(8)
- CUT ETCH FROM S2(9)
- CUT ETCH AT PTH TO LEFT OF E78(5/6)
- CUT ETCH AT E78(5/6)

- CUT ETCH AT PTH ABOVE FINGER E11
- CUT ETCH BETWEEN (2) AND (12) E100
- CUT ETCH E32(1/4)
- CUT ETCH NEXT TO E98(2)
- CUT ETCH AT E1(7)

ETCH CUTS SIDE #2 AS SHOWN

- CUT ETCH AT PTH TO RIGHT OF E24 (1 & 2)
- CUT ETCH AT PTH FROM E22(4)
- CUT ETCH AT E22(2)
- CUT ETCH AT PTH BETWEEN E22(6 & 11)
- CUT ETCH AT E22(7)
- CUT ETCH AT E47(9)
- CUT ETCH AT PTH FROM E87(8)
- CUT ETCH FROM E75(13)

- CUT ETCH TO RIGHT OF S2(9)
- CUT ETCH BELOW & TO LEFT OF S2(11)
- CUT ETCH BOTH SIDES OF E100(12)
- CUT ETCH AT E92(15)
- CUT ETCH AT E98(15)

WIRE ADDS SIDE #1 AS SHOWN

- ADD WIRE FROM E103(1) (SPARE LOCATION) TO E98(6)
- ADD WIRE FROM E91(11) TO PTH TO RIGHT OF E87(14)
- ADD WIRE FROM PTH TO RIGHT OF E87(14) TO E87(9)
- ADD WIRE FROM E87(1) TO E87(8)
- ADD WIRE FROM PTH TO LEFT OF E24(1 & 2) TO PTH ABOVE E18(8)
- ADD WIRE FROM PTH TO LEFT OF E24(1 & 2) TO E22(2)
- ADD WIRE FROM E22(1) TO E22(8)
- ADD WIRE FROM E22(8) TO C2 (LOWER LEAD)
- ADD WIRE FROM E22(7) TO R22 (LOWER LEAD)
- ADD WIRE FROM E22(13) TO SECOND PTH ABOVE AND TO LEFT OF E22(1)
- ADD WIRE FROM R2 (LOWER LEAD) TO E79(12)
- ADD WIRE FROM E79(12) TO E75(13)
- ADD WIRE FROM PTH BELOW & TO RIGHT OF S2(1) TO E78(11)
- ADD WIRE FROM PTH BELOW & TO LEFT OF C35 TO E66(12)
- ADD WIRE FROM PTH TO LEFT OF E78(5/6) TO E66(11)
- ADD WIRE FROM E66(13) TO PTH TO LEFT OF E67(1)
- ADD WIRE FROM E100(2) TO E25(14)
- ADD WIRE FROM E100(12) TO E22(13)
- ADD WIRE FROM PTH TO RIGHT OF E102(12) TO PTH BETWEEN R9 & R10

COMPONENT ADDS SIDE #1 AS SHOWN

- ADD RES STOP (RES) BETWEEN SPARE LOCATION E103(1) & E16

|                                                                               |     |     |
|-------------------------------------------------------------------------------|-----|-----|
| DEC 8647                                                                      | 8   | 16  |
| DEC 2501-00                                                                   | 14  | 1   |
| DEC 8838                                                                      | 8   | 16  |
| DEC 8837                                                                      | 8   | 16  |
| DEC 8640                                                                      | 1   | 8   |
| DEC 745124                                                                    | 8   | 16  |
| DEC 75453                                                                     | 4   | 8   |
| DEC 74193                                                                     | 8   | 16  |
| DEC 74190                                                                     | 8   | 16  |
| DEC 74175                                                                     | 8   | 16  |
| DEC 74157                                                                     | 8   | 16  |
| DEC 74155                                                                     | 8   | 16  |
| DEC 74153                                                                     | 8   | 16  |
| DEC 74151                                                                     | 8   | 16  |
| DEC 74123                                                                     | 8   | 16  |
| LM 339                                                                        | 12  | 3   |
| IC TYPE                                                                       | GND | +5V |
| GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE |     |     |
| IC PIN LOCATIONS                                                              |     |     |

| QTY | REF. DESIGNATION         | DESCRIPTION                          | PART NO.   | ITEM NO. | QTY | REF. DESIGNATION                                 | DESCRIPTION                           | PART NO.   | ITEM NO. |
|-----|--------------------------|--------------------------------------|------------|----------|-----|--------------------------------------------------|---------------------------------------|------------|----------|
| 2   | E71, E90                 | I.C. DEC 7408                        | 1910155    | 50       | 1   |                                                  | ETCHED CIRCUIT BOARD                  | 9011007    | 1        |
| 3   | E77, E78, E80            | I.C. DEC 8037                        | 1911116    | 51       | 2   | C1, C2                                           | CAP. 10pF 100V 5%                     | 1000000    | 2        |
| 3   | E73, E79, E84            | I.C. DEC 8242                        | 1909712    | 52       | 10  | C3, C4, C6, C7, C47                              | CAP. 15uF 20V 10%                     | 1000012    | 3        |
| 5   | E74, E92, E91, E95, E100 | I.C. DEC 7402                        | 1909004    | 53       | 1   | C5                                               | CAP. .01uF 100V 20%                   | 1001818-01 | 4        |
| 1   | E78                      | I.C. DEC 7410                        | 1905576    | 54       | 29  | C8 THRU C46                                      | CAP. .22uF 50V                        | 1010274    | 5        |
| 3   | E81, E93, E102           | I.C. DEC 7404                        | 1909686    | 55       | 3   | D1, D2, D3                                       | DIODE D672                            | 1105275    | 6        |
| 2   | E92, E98                 | I.C. DEC UNIBUS INTERRUPT CHIP(8647) | 1912083    | 56       | 2   | D4, D5                                           | DIODE ARRAY DEC 2501-00               | 1910010-00 | 7        |
| 2   | W1, W2                   | JUMPER, #22 AWG (INSULATED)          | 9009185    | 57       | 8   | F1 THRU F8                                       | 250MA PICO FUSE                       | 1210929-04 | 8        |
| 10  |                          | SPLIT LUGS                           | 9006735    | 58       | 1   | J1                                               | 40 PIN BERG CONNECTOR                 | 1209941-02 | 9        |
| 2   | J2, J3                   | OFFSET FASTON TAB                    | 9007112    | 59       | 1   |                                                  | LATCH, R.H. FOR BERG CONN.            | 1209941-04 | 10       |
| 2   |                          | EYELET (FOR FASTON)                  | 9007827    | 60       | 1   |                                                  | LATCH, L.H. FOR BERG CONN.            | 1209941-03 | 11       |
| 12  |                          | EYELET (HANDLE)                      | 9006732    | 61       | 1   | S1                                               | SWITCH PACK (10 PIN)                  | 1211164-01 | 12       |
| 1   |                          | HANDLE ASSY.                         | 1210711-02 | 62       | 1   | S2                                               | SWITCH PACK (20 PIN)                  | 1211164-06 | 13       |
| 1   | E60                      | PRIORITY JUMPER LEVEL #6             | 5406780    | 63       | 18  | R2 THRU R11, R17, R32, R41, R48, R57             | RES. 10K 5% 1/4W                      | 1300479    | 14       |
| 1   | (S1)                     | SWITCH COVER                         | 211244-01  | 64       | 10  | R12 THRU R16, R31, R37, R45, R53, R1             | RES. 1K 5% 1/4W                       | 1300365    | 15       |
| 1   | (S2)                     | SWITCH COVER                         | 1211264-06 | 65       | 3   | R18, R20, R69                                    | RES. 180 5% 1/4W                      | 1301322    | 16       |
| AR  |                          | WIRE 30 AWG GRN                      | 9105740-55 | 66       | 1   | R19                                              | RES. 390 5% 1/4W                      | 1300309    | 17       |
|     |                          |                                      |            |          | 2   | R21, R22                                         | RES. 5.6K 5% 1/4W                     | 1301074    | 18       |
|     |                          |                                      |            |          | 3   | R24, R33, R49                                    | RES. 100K 5% 1/4W                     | 1302486    | 19       |
|     |                          |                                      |            |          | 3   | R25, R34, R50                                    | RES. 2K 5% 1/4W                       | 1302388    | 20       |
|     |                          |                                      |            |          | 6   | R26, R29, R35, R51, R55, R35                     | RES. 33K 10% 1/4W                     | 1300510    | 21       |
|     |                          |                                      |            |          | 4   | R27, R36, R44, R52                               | RES. 1M 5% 1/4W                       | 1308595    | 22       |
|     |                          |                                      |            |          | 7   | R28, R30, R38, R40, R43, R54, R56                | RES. 15K 5% 1/4W                      | 1300498    | 23       |
|     |                          |                                      |            |          | 1   | R46                                              | RES. 20K 5% 1/4W                      | 1302391    | 24       |
|     |                          |                                      |            |          | 1   | R47                                              | RES. 62K 5% 1/4W                      | 1304840    | 25       |
|     |                          |                                      |            |          | 7   | R58 THRU R64                                     | RES. 220 5% 1/4W                      | 1300271    | 26       |
|     |                          |                                      |            |          | 3   | R65, R67, R68                                    | RES. 47 1% 1/4W (FUSIBLE)             | 1310881-02 | 27       |
|     |                          |                                      |            |          | 2   | R42, R66                                         | RES. 4.7K 5% 1/4W                     | 1300447    | 28       |
|     |                          |                                      |            |          | 1   | Y1                                               | CRYSTAL 20MHZ                         | 1809880    | 29       |
|     |                          |                                      |            |          | 1   | E1                                               | I.C. DEC 74S124                       | 1911911    | 30       |
|     |                          |                                      |            |          | 10  | E2, E4, E5, E7, E9, E49, E53, E59, E65, E97      | I.C. DEC 74190                        | 1910095    | 31       |
|     |                          |                                      |            |          | 2   | E3, E87                                          | I.C. DEC 74S74                        | 1910544    | 32       |
|     |                          |                                      |            |          | 1   | E6                                               | I.C. DEC 7446                         | 1910011    | 33       |
|     |                          |                                      |            |          | 3   | E8, E87, E89                                     | I.C. DEC 74155                        | 1910656    | 34       |
|     |                          |                                      |            |          | 1   | E10                                              | I.C. DEC LM339N                       | 1112108    | 35       |
|     |                          |                                      |            |          | 10  | E11, E14, E15, E20, E30, E36, E44, E49, E50, E52 | I.C. DEC 74193                        | 1910018    | 36       |
|     |                          |                                      |            |          | 4   | E12, E16, E21, E32                               | I.C. DEC 74153                        | 1909937    | 37       |
|     |                          |                                      |            |          | 10  | E13, E27, E34, E36, E40, E42, E45, E47, E51, E58 | I.C. DEC 74151                        | 1909936    | 38       |
|     |                          |                                      |            |          | 4   | E17, E18, E23, E24                               | I.C. DEC 75453                        | 1911036    | 39       |
|     |                          |                                      |            |          | 4   | E19, E26, E35, E45                               | I.C. DEC 74157                        | 1910655    | 40       |
|     |                          |                                      |            |          | 1   | E22                                              | I.C. DEC 74123                        | 1910436    | 41       |
|     |                          |                                      |            |          | 4   | E25, E31, E37, E43                               | I.C. DEC 843P                         | 1911117    | 42       |
|     |                          |                                      |            |          | 4   | E28, E29, E33, E35, E41, E64                     | I.C. DEC 74175                        | 1910651    | 43       |
|     |                          |                                      |            |          | 3   | E54, E55, E96                                    | I.C. DEC 8981                         | 1909705    | 44       |
|     |                          |                                      |            |          | 8   | E56, E61, E62, E75, E83, E86, E89, E101          | I.C. DEC 7474                         | 1905547    | 45       |
|     |                          |                                      |            |          | 8   | E57, E68, E70, E77, E90, E95, E99, E94           | I.C. DEC 7400                         | 1905575    | 46       |
|     |                          |                                      |            |          | 1   | E42                                              | I.C. SOCKET, 16 PIN (PRIORITY JUMPER) | 1209939    | 47       |
|     |                          |                                      |            |          | 1   | E63                                              | I.C. DEC 7440                         | 1905579    | 48       |
|     |                          |                                      |            |          | 1   | E66                                              | I.C. DEC 8640                         | 1911469    | 49       |

|                                      |                     |                                                                                                                                                                                       |  |              |  |
|--------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|
| FIRST USED ON OPTION MODEL<br>K111-K |                     | ETCH BOARD REV                                                                                                                                                                        |  | PARTS LIST   |  |
| DRN. <i>S. J. J.</i>                 | DATE <i>11/5/75</i> | <br>TITLE<br>DUAL PROGRAMABLE<br>REAL TIME CLK<br>SIZE CODE<br>DUALM7025-0-0<br>NUMBER<br>REV. A |  |              |  |
| CHKD. <i>S. J. J.</i>                | DATE <i>11/5/75</i> |                                                                                                                                                                                       |  |              |  |
| ENG. <i>S. J. J.</i>                 | DATE <i>11/5/75</i> |                                                                                                                                                                                       |  |              |  |
| PRJ. <i>S. J. J.</i>                 | DATE <i>11/5/75</i> |                                                                                                                                                                                       |  |              |  |
| NEXT HIGHER ASSY<br>B-DD-M7025-0     |                     | SCALE NCNE                                                                                                                                                                            |  | SHEET 1 OF 4 |  |
| SEMICONDUCTOR CONVERSION CHART       |                     | DEC NO                                                                                                                                                                                |  | EIA NO       |  |



